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| System | Formation | Thickness (feet) | Character and distribution | Uranium deposits |
|--------------------------|-------------------------------|------------------|---|--|
| Cretaceous Unconf | Dakota sandstone | 5 - 100 | Fine- to medium-grained quartz sand- stone, locally conglomeratic. Gen- erally carbonaceous shale and locally coal at base. | Some small deposits, generally near base and in close relation to carbonaceous material. |
| | M orrison formation | 0-600 | Brushy Basin member; dominantly a greenish-gray claystone and, locally, thick arkosic sandstone units. Contains Jackpile sandstone (of local usage) at top in Laguna district. Ranges from 0 feet at Gallup to about 500 feet in thickness north of Laguna. Westwater Canyon member; arkosic, fine- to coarse-grained sandstone and some claystone lenses. Ranges from 300 feet in thickness north of Callup to | Significant deposits in sand- stone beds in Ambrosia Lake and Gallup districts. Largest deposits and greatest reserves in Laguna district occur in Jackpile sandstone. Contains largest deposits and greatest reserves in Ambrosia Lake district. Also moderately large deposits in Gallup district. |
| | | | discontinuous lenses in Laguna district. Poison Canyon sandstone (of local usage) is tongue of West- water Canyon in Brushy Basin. | rarge deposits in Garrup district. |
| Jurassic | | | Recapture member; fine- to medium- grained, friable sandstone and some silty claystone beds. Occurs in distinctive alternating light-gray and reddish-brown units 5-10 feet thick. From 20-170 feet thick; absent at least locally in Laguna district. | Contains no significant deposits. |
| | Bluff sandstone | 175-330 | Fine- to medium-grained quartz sandstone. Dominantly a thick- tedded unit with some relatively thin interbedded siltstone units near the base. | Contains no deposits. |
| | Summerville formation | 100-220 | Fine-grained sandstone beds, generally 1 to several feet thick, alternating with thinner beds of siltstone. | Contains a few small deposits, only where underlying Todilto limestone is mineralized. |
| | Todilto· limestone · | 0-85 | Fetid dense gray laminated lime- stone; massive in upper part. Ranges from pinchout near Gallup to maximum thickness in Laguna district. Includes an upper unit of anhydrite and gypsum in Laguna district that ranges from discontinuous masses at south to continuous unit to the north. | Contains small to fairly large deposits. Most are in Ambrosia Lake district. The anhydrite- gypsum member is barren. |
| | Entrada sandstone | 150-250 | Reddish-orange fine-grained quartz sandstone; lighter colored at top. Generally thins eastward. In Laguna district two distinct units a lower reddish-orange unit and an upper white unit. | Contains a few small deposits in Laguna and Ambrosia Lake districtsall at top of forma- tion. |